

Message

---

**From:** Alvey, Robert [Alvey.Robert@epa.gov]  
**Sent:** 8/29/2016 4:24:15 PM  
**To:** Stein, Carol [Stein.Carol@epa.gov]  
**CC:** Scharf, Steven (DEC) [steven.scharf@dec.ny.gov]; Mannino, Pietro [Mannino.Pietro@epa.gov]; Metz, Chloe [Metz.Chloe@epa.gov]; Wilkie, Henry (DEC) [henry.wilkie@dec.ny.gov]  
**Subject:** FW: NG OU3 - BPGWCS Second Quarter 2016 OM&M Report Northrop-Grumman Bethpage

Hi Carol,

We received copies of this report from Arcadis on the Operation & Maintenance at Northrop-Grumman Bethpage OU3 for the Second Quarter 2016. As I am confident the NYSDEC is reviewing this report I do not anticipate the need for me to conduct a formal review, so here's a quick summary of my read of the report.

In general, It looks as if the system continues to operate satisfactorily and remains in operating condition, similar to the last few years. There has been no significant change in VOC constituents over the last year, whether identified as "project" or "non-project" related, such as Freon 22.

Since last August, they have also analyzed their effluent water for 1,4 dioxane and minor amounts continue to be detected.

I note that their effluent vapor analyzes indicate more VOCs are attributable to non-project VOCs than "project" VOCs. Table 7 is noted as I see that the remedial well 3 effluent water pressures have been declining consistently from July 2015 through June 2016... but I'm not certain whether that is a good or bad trend and note the overall pumpage rate has remained steady.

Total mass VOC recovery rates for project VOCS have consistently declined since 2010 (293 lbs) to 2015 (67 lbs). The trend may flatten out as 45 lbs have been recovered so far in 2016, but overall it's a good trend and the trend lines also show good progress overall in OU3.

Regards

Robert M. Alvey, P.G.

---

**From:** San Giovanni, Carlo [mailto:Carlo.SanGiovanni@arcadis.com]  
**Sent:** Friday, August 26, 2016 3:59 PM  
**To:** 'Steven Scharf' (sxscharf@gw.dec.state.ny.us) <sxscharf@gw.dec.state.ny.us>  
**Cc:** Alvey, Robert <Alvey.Robert@epa.gov>; Stein, Carol <Stein.Carol@epa.gov>; Joseph DeFranco (JDeFranco@nassaucountyny.gov) <JDeFranco@nassaucountyny.gov>; Steven Karpinski (steven.karpinski@health.ny.gov) <steven.karpinski@health.ny.gov>; Hannon, ED (AS) <Edward.Hannon@ngc.com>; Haltmeyer, Tim (AS) <tim.haltmeyer@ngc.com>; fred.weber@ngc.com; Wolfert, Mike <Mike.Wolfert@arcadis.com>; Engler, Christopher <christopher.engler@arcadis.com>; Stern, David <David.Stern@arcadis.com>  
**Subject:** NG OU3 - BPGWCS Second Quarter 2016 OM&M Report

Steve-

Attached is the above-referenced OM&M Report for your records. Any questions, feel free to call us.

Thank you!

Carlo

**Carlo SanGiovanni** | Certified Project Manager/Principal Scientist |

[carlo.sangiovanni@arcadis.com](mailto:carlo.sangiovanni@arcadis.com)

**Arcadis** | Arcadis of New York, Inc.

2 Huntington Quadrangle, Suite 1S10 Melville NY | 11747 | USA

T. +1 631 391 5259 | M. +1 516 903 6591

Connect with us! [www.arcadis.com](http://www.arcadis.com) | [LinkedIn](#) | [Twitter](#) | [Facebook](#)



Be green, leave it on the screen

This e-mail and any files transmitted with it are the property of Arcadis. All rights, including without limitation copyright, are reserved. This e-mail contains information which may be confidential and may also be privileged. It is for the exclusive use of the intended recipient(s). If you are not the intended recipient(s) please note that any form of distribution, copying or use of this communication or the information in it is strictly prohibited and may be unlawful. If you have received this communication in error please return it to the sender and then delete the e-mail and destroy any copies of it. Whilst reasonable precautions have been taken to ensure no software viruses are present in our emails we cannot guarantee that this e-mail or any attachment is virus-free or has not been intercepted or changed. Any opinions or other information in this e-mail that do not relate to the official business of Arcadis are neither given nor endorsed by it.